MARKED UP VERSION OF AMENDED CLAIMS OZ 50091

- A process as claimed in <u>claim 1</u> [one of the preceding claims] wherein the moist crude granulate is spheronized before carrying out the polymer coating.
- 4. A process as claimed in <u>claim 1</u> [one of the preceding claims] wherein the granulation and/or polymer coating is carried out continuously or batchwise.
- 5. A process as claimed in <u>claim 1</u> [one of the preceding claims] wherein the crude granulate has a narrow particle size distribution.
- 6. A process as claimed in <u>claim 1</u> [one of the preceding claims] wherein the crude granulate is coated with an aqueous or nonaqueous solution or dispersion of the organic polymer.
- 9. A process as claimed in <u>claim 1</u> [one of claims 1 to 5] wherein a powder coating is carried out with a powder of a solid polymer which is selected from the group consisting of hydroxypropyl methyl celluloses having a number average molecular weight from 6000 to 80,000; mixed with a plasticizer.
- 10. A process as claimed in <u>claim 1</u> [one of claims 1 to 5], wherein a melt of at least one polymer is used for the coating, which polymer is selected from the group consisting of:
 - a) polyalkylene glycols, in particular polyethylene glycols, having a number average molecular weight from 1000 to 15,000;
 - b) polyalkylene oxide polymers or copolymers having a number average molecular weight from 4000 to 20,000, in particular block copolymers of polyoxyethylene and polyoxypropylene.

MARKED UP VERSION OF AMENDED CLAIMS OZ 50091

- 13. The use as claimed in claim 11 [or 12] wherein it comprises at least one enzyme which is selected from the group consisting of oxidoreductases, transferases, lyases, isomerases, ligases, phosphatases and hydrolases.
- 17. A pelleted feedstuff composition which, in addition to customary constituents, comprises at least one feed additive as claimed in claim 11 [one of claims 11 to 16] as admixture.

- A process for increasing the pelleting stability of a polymer-coated, granulated enzyme-containing feed additive, which comprises
 - (1 processing a mixture comprising a support suitable for feedstuffs and at least one enzyme to form a crude granulate;
 - (2 coating the crude granulate with an organic polymer which is suitable for feedstuffs, by
 - (2a) spraying the crude granulate in a fluidized bed with a melt, a solution or a dispersion of the organic polymer or carrying out in a fluidized bed a powder coating with the organic polymer; or
 - (2b) coating the crude granulate in a mixer with a melt, a solution or a dispersion of the organic polymer or carrying out a powder coating with the organic polymer;

and if necessary post-drying, cooling and/or freeing from coarse fractions the respective resultant polymer-coated granulate.

- 2. A process as claimed in claim 1 wherein a mixture comprising the support suitable for feedstuff and a solution of at least one enzyme is processed to form a crude granulate by extrusion, mixer-granulation, fluidized-bed granulation, disk agglomeration or compacting.
- A process as claimed in claim 1 wherein the moist crude granulate is spheronized before carrying out the polymer coating.
- 4. A process as claimed in claim 1 wherein the granulation and/or polymer coating

is carried out continuously or batchwise.

- A process as claimed in claim 1 wherein the crude granulate has a narrow particle size distribution.
- 6. A process as claimed in claim 1 wherein the crude granulate is coated with an aqueous or nonaqueous solution or dispersion of the organic polymer.
- 7. A process as claimed in claim 6 wherein a from 10 to 50% strength by weight aqueous or nonaqueous solution of at least one polymer is used for the coating, which polymer is selected from the group consisting of
 - a) polyalkylene glycols, in particular polyethylene glycols having a number
 average molecular weight of from 400 to 15,000;
 - b) polyalkylene oxide polymers or copolymers having a number average molecular weight of from 4000 to 20,000; in particular block copolymers of polyoxyethylene and polyoxypropylene;
 - c) polyvinylpyrrolidone having a number average molecular weight from 7000 to 1,000,000;
 - d) vinylpyrrolidone/vinylacetate copolymers having a number average molecular weight from 30,000 to 100,000;
 - e) polyvinyl alcohol having a number average molecular weight from 120,000 to 100,000; and
 - f) hydroxypropyl methyl cellulose having a number average molecular weight from 6000 to 80,000.

- 8. A process as claimed in claim 6 wherein a from 10 to 40% strength by weight aqueous or nonaqueous dispersion or solution of at least one polymer is used for the coating, which polymer is selected from the group consisting of:
 - a) alkyl (meth)acrylate polymers and copolymers having a number average molecular weight from 100,000 to I,000,000; in particular ethyl acrylate/methyl methacrylate copolymers and methyl acrylate/ethyl acrylate copolymers; and
 - b) polyvinyl acetate having a number average molecular weight from 250,000 to 700,000, possibly stabilized with polyvinylpyrrolidone.
- 9. A process as claimed in claim 1 wherein a powder coating is carried out with a powder of a solid polymer which is selected from the group consisting of hydroxypropyl methyl celluloses having a number average molecular weight from 6000 to 80,000; mixed with a plasticizer.
- 10. A process as claimed in claim 1, wherein a melt of at least one polymer is used for the coating, which polymer is selected from the group consisting of:
 - a) polyalkylene glycols, in particular polyethylene glycols, having a number average molecular weight from 1000 to 15,000;
 - b) polyalkylene oxide polymers or copolymers having a number average molecular weight from 4000 to 20,000, in particular block copolymers of polyoxyethylene and polyoxypropylene.
- 11. The use of a granulated, polymer-coated feedstuff additive that comprises a

solid granulated mixture of a support suitable for feedstuffs and at least one enzyme, coated with an organic polymer which is suitable for feedstuffs and selected from the group consisting of:

- a) polyalkylene glycols, in particular polyethylene glycols having a number average molecular weight of from 400 to 15,000;
- b) polyalkylene oxide polymers or copolymers having a number average molecular weight of from 4000 to 20,000; in particular block copolymers of polyoxyethylene and polyoxypropylene;
- c) polyvinylpyrrolidone having a number average molecular weight from 7000 to 1,000,000;
- vinylpyrrolidone/vinylacetate copolymers having a number average
 molecular weight from 30,000 to 100,000;
- e) polyvinyl alcohol having a number average molecular weight from 20,000 to 100,000; and
- f) hydroxypropyl methyl cellulose having a number average molecular weight from 6000 to 80,000
- g) alkyl (meth)acrylate polymers and copolymers having a number average molecular weight from 100,000 to 1,000,000; in particular ethyl acrylate/methyl methacrylate copolymers and methyl acrylate/ethyl acrylate copolymers; and
- h) polyvinyl acetate having a number average molecular weight from

250,000 to 700,000, possibly stabilized with polyvinylpyrrolidone; for preparing a pelletized feedstuff composition.

- (6) vse
- 12. The use as claimed in claim 11 wherein it has a mean particle size of from 0.4 to 2 mm.
- 13. The use as claimed in claim 11 wherein it comprises at least one enzyme which is selected from the group consisting of oxidoreductases, transferases, lyases, isomerases, ligases, phosphatases and hydrolases.
- 14. The use as claimed in claim 13 wherein the hydrolase is a non-starch-polysaccharide-cleaving enzyme.
- 15. The use as claimed in claim 14 wherein the phosphatase is phytase.
- 16. The use as claimed in claim 15 wherein it comprises from 1xlO3 to 1xlOs U of phytase per gram of total weight.
- 17. A pelleted feedstuff composition which, in addition to customary constituents, comprises at least one feed additive as claimed in claim 11 as admixture.
- 18. The use of polymer acceptable as feedstuff as claimed in claim 11 for producing pelleted feedstuff compositions.